

## GRAYSCALE IMAGE CONNECTED COMPONENTS SEGMENTATION

### ABSTRACT OF THE DISCLOSURE

A method and system of reading images. The method includes  
5 decimating an image and normalizing the decimated image. Then, rebinning  
grayscale pixel data associated with the decimated image and reassigning  
a selected range of grayscales representing a region of interest of the  
remapped grayscale pixel data to one while zeroing others. The method also  
includes labeling the connected pixels associated with the range of grayscales  
10 representing the region of interest and then extending the connected pixels  
through region growing using a preselected offset value. Lastly, the method  
includes filtering segmented regions of the connected pixels to eliminate  
certain candidates. The system is designed to implement the steps of the  
enumerated method.